

Diarium Planetarum:
O R, A N
EPHEMERIS
F O R T H E
Year of our Redemption, 1690.

Being the Second after
Bisextile or Leap-Year,
A N D

From the World's Creation, 5639.

Amplified with Observations of Eclipses,
Conjunctions, and other Configurations
of the Heavenly Bodies.

And Tables useful for their Majesties Offi-
cers of EXCISE;

And also Tables of Allowance for Com-
mon BREWERS.

Calculated for the Meridian of the Ancient City
of CANTERBURY, where the Arctic
Pole is Elevated above the Horizon 51. deg.
25. min. and may indifferently serve for Eng-
land, Scotland and Ireland.

By **NICHOLAS GREENWOOD**,
Student in Physick and Astronomy.

*Si quis Animas & Corpora humana fatalibus Stellis credit a-
stringi, sicut Pagani & Priscillianus dixerunt Anathema sit.*

LONDON: Printed by R. E. for the Com-
pany of Stationers. 1690.

Common Notes for the Year 1690.

The Golden Number 19.

The Cycle of the Sun.

The Dominical Letter E.

The Epact 29.

The Roman Indiction 13.

Septuagesima, February 16.

AshWednesday, March 5.

Easter Day, April 26.

Rogation Sunday, May 25.

Holy Thursday, May 29.

Whitsunday, June 8.

Trinity Sunday, June 15.

Advent Sunday, November 30.

Christmas Day, December 25.

Epiphany Day, January 6.

The Beginning, and Ending, of the Terms.

January Term begins Jan. 33. ends Feb. 12.

Easter Term begins May 7. ends June 2.

Trinity Term begins June 20. ends July 9.

Michaelmas Term begins October 23. ends November 20.

VENUS is our Lucifer, or Morning-Star, till the 6 of April: then passing her Conjunction with the Sun; becomes Occidental, or our Evening-Star, to the End of the Year.

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The Names and Characters of the Seven Planets.

1. ♂ Saturn, 2. ♂ Jupiter, 3. ♂ Mars, 4. ☽ Sol. 5. ♀ Venus
 6. ♂ Mercury 7. ♀ Luna. ♀ Dragon's Head, ♂ Dragon's Tail.

The Names and Characters of the Aspects.

Conjunction, * \heartsuit Bessile, \square Quartile, Δ Trine
 Opposition.

The Dominion of the Moon in as she passeth through the 12 stellations.	Mans's Body, Zodiacal Con-	
	II Gemini, Arms and Shoulders.	
8 Taurus, Head and breast.	9 Leo, Heart and Stomach and Ribs.	10 Virgo, Belly and Belly.
11 Scorpio, Sperm Members.	12 Capricorn, Knees.	13 Pisces, the Feet.



Well, you know what you have to do.

X Pisces, the Feet.

The Regal Table.

From the time of **WILLIAM** the Conqueror to this present Year, 1690.

Kings Names.	Began their Reign.	Kings Names.	Began their Reign.
1 William Con.	1066/20	Line of York.	
2 William Ruf.	1087/3	16 Edward IV.	1460/23
3 Henry I.	1100/39	17 Edward V.	1483/9
4 K. Stephen.	1135/19	18 Richard III.	1483/2
5 Henry II.	1154/63	Families united.	1511/13
6 Richard I.	1189/10	19 Henry VII.	1485/24
7 King John.	1199/1	20 Henry VIII.	1508/40
8 Henry III.	1216/5	21 Edward VI.	1547/6
9 Edward I.	1272/6	22 Q. Mary.	1553/5
10 Edward II.	1312/7	23 Q. Elizabeth	1558/44
11 Edward III.	1327/1	Kingdome united.	1588/9
12 Richard II.	1377/1	James I.	1602/22
Line of Lancast.		Charles I.M.	1625/24
13 Henry IV.	1399/1	Charles II.	1648/37
14 Henry V.	1413/1	James II.	1685/5
15 Henry VI.	1422/10	28 William III.	1689/1
		and Q. Mary.	
		Vivant Vigant vincent.	

Our Glorious Race of Kings you here may view,
The Valiant Edwards and Fair'd Henrys too ;
Whose Warlike Acts made swelling France to yield,
While still the Scales of Christendom they held.
The Warlike Rom ascends in England's Scheme,
And Mars or Mars his Sons must govern them.

A Table shewing by the Moon's Age the
time of High-water,

1. At London, 2. Gravesend and the Downs, 3. Rochester
and Malden, 4. Scarborough, Portsmouth, Isle of Wight
Spits, in Hours and Minutes. atop M at 10 QWT

Moon's Age.	London.	Gravesend and the Downs.	Rochester and Malden.	Portsmouth, Isle of Wight Spits.
Days.	h. and m.	h. and m.	h. and m.	h. and m.
1	16 3	48 2	16 33	19 20
2	17 4	36 3	6 21	1 36
3	18 5	24 3	54 3	24 45
4	19 6	12 4	42 3	57 32
5	20 7	0 30	30 45	4 45
6	21 7	48 6	18 45	48 45
7	22 8	36 7	6 21	5 36
8	23 8	24 7	54 3	24 45
9	24 11	12 8	32 45	7 12
10	25 11	0 9	30 45	9 0
11	26 11	48 10	18 45	48 45
12	27 12	36 1	6 10	21 9 36
13	28 1	24 1	33 45	4 45
14	29 2	12 2	11 45	13 22
15	30 3	0 3	28 45	14 45

Relative to the

"sd hi", The Explanation of the Table. atop M at 10 QWT
In this Table the first Column is the Moon's Age, the second the
Hour and Minutes of High-water at London, and
of the rest, as it is noted in the Head of the Column.

of the Eclipses of the Luminaries which happen
this Year, 1690.

These will be Four Eclipses, Two of the Sun, and
Two of the Moon.

The First will be an Eclipse of the Sun, on February the Twenty Eighth day, about Eleven at Night. It is Celebrated in Twenty Two Degrees of Rishes; but will be to us invisible; But to our Antipodes it will appear a Great Eclipse, the Sun being then near their Meridian.

The Second will be an Eclipse of the Moon, on March the Fourteenth, about Ten at Night. It happens in the Fifth Degree of the Cœlestial Ballance, and will be visible to us in England.

The Third is an Eclipse of the Sun, on the Twenty Fourth day of August, about One a Clock in the morning. It is celebrated in the Eleventh Degree of Virgo, and will be a very great Eclipse; but invisible to us.

The Fourth will be an Eclipse of the Moon, on September the Eighth, about Two of the Clock after Noon. It happens in the Twenty Sixth Degree of Pisces; but invisible to us.

On November the Twentieth, this year, will be celebrated a Famous Conjunction of Saturn and Mars, in the Twenty Third Degree of Scorpion. Such a Conjunction preceded the Swearing-Saints.

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BATEMAN's Spirit of Sarsaparilla, Famous for the Cure of the Scury, Gout, Dropsey, and most other Chronical Diseases, continues to be truly Prepared and Sold, at the House where Mr. Bateman dwelt, in Pauls-Cham, near Doctors-Commons, by the Persons to whom he only entrusted that Spirit, called as formerly, with the Half Moon and Ermins, to prevent Counterfeits. Price 1/- a bottle.

At the same place is to be sold, by
Hooke, the truly prevailing Elixir, ~~for~~ for
Eradicating and subduing the most dan-
gerous Diseases incident to the Body of Man ;
As being an Universal Medicine, agreeing
with all Complexions, Constitutions and
ages of both Sexes ; and for that purpose
more Elaborately Prepared and Received
than any other Elixir going by that Name,
with Printed Directions for taking it, put
up in Half-Pint Bottles. Price, ~~one~~ ~~one~~ ~~one~~
and Forty Mils about ; and 2 s. 6 d. in
more distant places,

January last XXI days.

First Quarter the 8 day, 4 in the morning.

Full Moon the 14 day, nine at night.

Last Quarter the 24 day, 5 in the morning.

New Moon the 30 day, 8 in the morning.

no.	m	x	s	t	w	v
1	16 22 28 18 50 79 28 37 40 5 24 3					0
The Planets	6 15 42 3 12 7 5b 29 4 3 34 11 38					0
Places every 5th day.	11 17 15 5 26 12 17 17 m 3 3 3 3 3					29 X
	18 17 28 6 35 14 47 23 18 12 26					29
	26 17 30 7 45 17 21 29 33 24 5					29
	23	58 3	40			
	04	0 4	46	Pleasant and favorable		
	58 4	25	24	able Weather.		
	57 4	36 0	12			
	56 4	47	00			
	55 4	54 97	48	Year begins		
	54 4	68 5	36	85 Year.		
	53 4	79 1	24			
	52 4	8 10	19			
	50 4	10 1	24			
	49 4	11 15 2	12			
	48 4	17 3	0			
	47 4	13 12	36			
	46 4	14 1	24			
	45 4	11 17 2	12			
	43 4	17 3	0			
	42 4	18 3	48			
	41 4	19 4	26			
	39 4	12 21 5	24			
	38 4	17 22 6	12	D. U.		
	36 4	24 7	0			
	35 4	26 7	48			
	32 4	28 8	36			
	31 4	29	24			
	30 4	23 10 1	12			
	28 4	32 1	0			
	26 4	34 1	48			
	25 4	35 12	36			
	24 4	37 1	24			
	20 4	40 2	12			
	18 4	42 3	0			
	16 4	44 3	48			

Secondary bath XXVIII days.

First Quarter the 6 day, 1 afternoon.

Full Moon the 13 day at 8 in the morning.

Last Quarter the 21 day, 4 in the morning.

New Moon the 28 day, 11 at night.

1690.	II	X	V	III	X
The Planets	17	50	11	20	35 7
Places every 11th day.	17	55	10	22	23 7 13 13 10 49 28
	17 St	54	11	34	25 44 19 27 19 7 28
	16	17	58	12	45 28 32 26 40 25 43 27
	21	17	R 56	13	58 1 II 22 2 X 53 27
	26	17	51	15	11 14 12 9
					13 19 RMB 27
7	15 4	49 4	36	D	♂. violent
27	42	14 4	46 5	24	Strong wind in
37	51	13 4	47 5	12	the month.
47	11 4	49 7	6		Hot & sultry
	10 4	50 7	48	♂	Piercing
	9 4	51 8	36	Winds.	
	8 4	52 9	24	D Perig. Frost.	
	6 4	54 10	12		
97	44	56 11	0	♂. Cold	
107	*	58 11	48	□. h. ♂. Rain	
116	50	11 12	36	or snow.	
125	5 15	2 13	24		
136	8 1	4	12	D	♂.
146	5 12	5 3	6		
156	5 15	6 3	48		
166	5 15	7 4	36		
176	5 15	9 5	24		
186	4 9	11 6	12	♂	♀. fierce.
196	4 15	14 7	0		
206	4 4 5	12 10	48	D Apog.	
216	4 4 5	18 8	36	♂	♀. Clear
226	4 5	20 9	24		wholesome
236	3 10	22 10	12		Frost with
246	*	25 11	0	△	some Snow
256	3 2 5	28 11	48	○	B. toward
266	3 1 12	30 11	36		
276	2 12	32 1	24		
286	0 2 13	34 2	12	○	Eclipsed invis.

First Quarter the 7 day, 9 at night.

Full Moon the 14 day, 19 at night.

Half Quarter the 22 day, in at night

Left Quarter the 22 day, 12 at night
New Moon the 30 day, 10 morning

April hath ~~X~~ ~~X~~ day

First Quarter the 5 day, 3 in the morning.

Full Moon the 13 day, 1 afternoon.

Last Quarter the 21 day, 4 afternoon.

New Moon the 28 day, 7 at night.

Saints Days.	Theodore.	22	20	9	Lunar Aspects.						
					○	△	○	□	○	△	○
1											
2		23	59	4	III	46		6	10	10	7
3	In Christian.	24	4	19		20	*		○	○	*
4		25	23	55	43	9	△	7	10	7	11
5	Lent.	26	1	17		54	□	20	△		□
6	Sund. in	26	59	1	51	48	15		11		19
7		27	58	15		31		□		*	
8		28	56	28		58	△	1		23	△
9	Albinus.	29	55	12		13	0	*			2
10		30	53	25		19		8	□		8
11		1	53	8		12		○	8		18
12	Julie.	2	50	20		54		△			
13	Palm Sund.	3	48	3	IV	26	○	○		20	8
14		4	46	15		46	1	23	△		6
15		5	44	27		58			21		
16		6	42	10	7	0					△
17		7	40	21		58			□		5
18		8	39	3	V	50	△	*	10	8	△
19		9	37	15		42	10	23	*	0	20
20	Easter day.	10	35	27		38		23			4
21		11	33	9	VI	42	□	□			□
22		12	31	21		59	4	10		14	*
23		13	29	4	VII	39	*	△			1
24		14	26	17		36	18	15	△	*	
25	St. Mark.	15	24	1	V	4		18	4		
26		16	22	14		59			13		
27	Low Sund.	17	20	29		22			*		d
28	Vitalis.	18	18	14	II	10	○	8	17	d	4
29		19	16	29		11	7	0	*		17
30		20	13	14	II	14		0			

1600.	1	10	21	23	11	23	15	21	23	43	25
The Planets	6	16	1	24	17	26	5	22	27	31	29
Places every	11	15	40	25	23	29	51	3	34	1	25
9th day.	16	15	18	26	27	28	50	9	49	24	
	21	14	56	27	28	5	49	16	120	49	24
Apog. A.	18	26	14	36	28	29	8	48	22	29	24

15	260	40	4	36	□	6	Q.	his month
15	Su	18	5	5	24			begins with
15	18	5	42	5	24			Marin
15	18	5	44	6	12			as the other ended.
15	14	6	46	7	0	□		Perigaeon.

15	Ris.	12	6	50	46	48	*	6	Q. More
15	Ris.	10	6	50	8	36	6	Q.	temperate,
15	Ris.	7	6	53	9	24	*	6	with
15	Ris.	4	6	46	10	2	12		pleasing

9	26	58	11	7	0	3	U.	April
10	5	0	7	11	48	2		Showers.
11	4	58	7	12	8	0		
12	4	57	1	1	24	1		

13	55	7	52	8	48	5	Seasonable	
14	53	7	73	8	36	1	Weather	
15	52	7	84	9	24	1	till	
16	50	7	105	10	12	1		

17	48	7	126	0	0	0	Apog. toward	
18	46	7	146	1	48	1	the latter	
19	44	7	167	7	36	1	end;	
20	42	7	188	8	24	0	8	to Q.

21	40	7	209	9	12	0	And	
22	39	7	2110	0	0	1	then	
23	37	7	2310	48	8	0	Q.	to expect
24	35	7	2511	26	8	0		

25	33	7	2712	24	0	Q.	much	
26	31	7	291	12	0	0		
27	29	7	312	0	0	0		
28	27	7	332	48	0	0		

29	25	7	353	36	0	0		
30	23	7	374	24	0	0		

PA 51257-11 Question this day, so the thing.

1963 *Journal of the American Philological Association* 94: 111-120.

ELIAPELLO. QUAKER CHURCH, on Sunday, 6th morning, 1800, against
Wm. Morris, 16, 3 days.

1854 New Moon the 23rd day 8 morning. 1000 ft.

First Quarter the 3 day, 7 in night.

Full Moon the 11 day, 7 1/2 in night.

Last Quarter the 19 day, 6 in night.

New Moon the 26 day, 8 morning.

Days.	Sun		Moon		Mercury		Venus		Jupiter		Saturn	
	II	III	II	III	II	III	II	III	II	III	II	III
1	5 1st. Easter	20	0 59 22	22	1	*					22	
2	Term ends.	21	1 47 5	14	44	65						*
3	St. K.	22	0 44 19	11	1	□	32					14
4		23	1 41 1	04	57	7						*
5	Reb. but	24	2 38 14	43	36	△	6					
6		25	0 35 27	14	0	21						
7		26	1 33 0	13								△
8	Whit. Sund.	27	2 30 21	11	22							
9		28	0 27 38	1	23							△△
10		29	1 24 15	12	22		4	4				
11	St. Barnab.	30	0 21 27	1	18	8						
12		1	1 18 9	19	13	6	*	7				
13		2	2 15 24	12	9							
14		3	0 12 3	11	6							*
15	Trinity Sun	4	1 9 15	12	7		6	11				
16		5	0 6 27	1	15	△						
17		6	1 3 9	16	34	17						
18		7	0 0 23	12	8							
19		7	1 57 5	15	0	□						△
20	Term begin	8	1 55 18	1	150	3	13					
21		9	0 52 3	15	59	*	8					
22	First. Trin.	10	1 48 06	13	14	19						
23		11	0 46 0	11	53							**
24	St. John Bapt.	12	1 43 15	12	50							
25		13	0 40 11	15	14	6	4					
26		14	1 37 15	13	33	20	10					
27		15	0 34 1	12	42	1	△					
28		16	1 31 10	11	35							
29		17	0 28 0	11	55	*	1					
30		18	1 25 1	11	49	*	7					

1690.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
The Planets	6	18	17	4	21	6	40	5	13	11	27	22											
Places engraven	7	19	5	9	3	53	44	11	10	18	14	22											
3d day.	16	1	3	5	9	53	23	9	19	13	25	22											
4th day.	21	11	28	6	30	13	6	29	28	2	Q	50	21										
5th day.	11	26	54	16	45	Q	33	12	21	21	21	21											
6th day.	3	50	8	10	6	24	△	h	11	Good													
7th day.	5	49	8	11	7	12																	
8th day.	49	8	11	8	9	0	2	3	3	begin-													
9th day.	49	8	11	8	9	48				ning.													
10th day.	5	48	8	12	9	36																	
11th day.	48	8	12	10	24	△	h	Q	1	Thunder													
12th day.	48	8	12	11	12					and													
13th day.	47	7	13	12	0	2	3	3	2	by coast.													
14th day.	47	7	13	12	0	0	0	0	0	△	h												
15th day.	47	7	13	12	0	6	0	0	0	△	h	151											
16th day.	47	7	13	12	0	0	0	0	0	△	h	Aprig.											
17th day.	47	7	13	12	0	48	2	2	2	△	h	slipping											
18th day.	47	7	13	12	0	0	0	0	0	△	h	weather.											
19th day.	47	7	13	12	0	0	0	0	0	0	0												
20th day.	47	7	13	12	0	0	0	0	0	0	0												
21st day.	47	7	13	12	0	0	0	0	0	0	0												
22nd day.	47	7	13	12	0	0	0	0	0	0	0												
23rd day.	47	7	13	12	0	0	0	0	0	0	0												
24th day.	47	7	13	12	0	0	0	0	0	0	0												
25th day.	47	7	13	12	0	0	0	0	0	0	0												
26th day.	47	7	13	12	0	0	0	0	0	0	0												
27th day.	47	7	13	12	0	0	0	0	0	0	0												
28th day.	47	7	13	12	0	0	0	0	0	0	0												
29th day.	47	7	13	12	0	0	0	0	0	0	0												
30th day.	47	7	13	12	0	0	0	0	0	0	0												
31st day.	47	7	13	12	0	0	0	0	0	0	0												
1st day.	47	7	13	12	0	0	0	0	0	0	0												
2nd day.	47	7	13	12	0	0	0	0	0	0	0												
3rd day.	47	7	13	12	0	0	0	0	0	0	0												
4th day.	47	7	13	12	0	0	0	0	0	0	0												
5th day.	47	7	13	12	0	0	0	0	0	0	0												
6th day.	47	7	13	12	0	0	0	0	0	0	0												
7th day.	47	7	13	12	0	0	0	0	0	0	0												
8th day.	47	7	13	12	0	0	0	0	0	0	0												
9th day.	47	7	13	12	0	0	0	0	0	0	0												
10th day.	47	7	13	12	0	0	0	0	0	0	0												
11th day.	47	7	13	12	0	0	0	0	0	0	0												
12th day.	47	7	13	12	0	0	0	0	0	0	0												
13th day.	47	7	13	12	0	0	0	0	0	0	0												
14th day.	47	7	13	12	0	0	0	0	0	0	0												
15th day.	47	7	13	12	0	0	0	0	0	0	0												
16th day.	47	7	13	12	0	0	0	0	0	0	0												
17th day.	47	7	13	12	0	0	0	0	0	0	0												
18th day.	47	7	13	12	0	0	0	0	0	0	0												
19th day.	47	7	13	12	0	0	0	0	0	0	0												
20th day.	47	7	13	12	0	0	0	0	0	0	0												
21st day.	47	7	13	12	0	0	0	0	0	0	0												
22nd day.	47	7	13	12	0	0	0	0	0	0	0												
23rd day.	47	7	13	12	0	0	0	0	0	0	0												
24th day.	47	7	13	12	0	0	0	0	0	0	0												
25th day.	47	7	13	12	0	0	0	0	0	0	0												
26th day.	47	7	13	12	0	0	0	0	0	0	0												
27th day.	47	7	13	12	0	0	0	0	0	0	0												
28th day.	47	7	13	12	0	0	0	0	0	0	0												
29th day.	47	7	13	12	0	0	0	0	0	0	0												
30th day.	47	7	13	12	0	0	0	0	0	0	0												
1st day.	47	7	13	12	0	0	0	0	0	0	0												
2nd day.	47	7	13	12	0	0	0	0	0	0	0												
3rd day.	47	7	13	12	0	0	0	0	0	0	0												
4th day.	47	7	13	12	0	0	0	0	0	0	0												
5th day.	47	7	13	12	0	0	0	0	0	0	0												
6th day.	47	7	13	12	0	0	0	0	0	0	0												
7th day.	47	7	13	12	0	0	0	0	0	0	0												
8th day.	47	7	13	12	0	0	0	0	0	0	0												
9th day.	47	7	13	12	0	0	0	0	0	0	0												
10th day.	47	7	13	12	0	0	0	0	0	0	0												
11th day.	47	7	13	12	0	0	0	0	0	0	0												
12th day.	47	7	13	12	0	0	0	0	0	0	0												
13th day.	47	7	13	12	0	0	0	0	0	0	0												
14th day.	47	7	13	12	0	0	0	0	0	0	0												
15th day.	47	7	13	12	0	0	0	0	0	0	0												
16th day.	47	7	13	12	0	0	0	0	0	0	0												
17th day.	47	7	13	12	0	0	0	0	0	0	0												
18th day.	47	7	13	12	0	0	0	0	0	0	0												
19th day.	47	7	13	12	0	0	0	0	0	0	0												
20th day.	47	7	13	12	0	0	0	0	0	0	0												
21st day.	47	7	13	12	0	0	0	0	0	0	0												
22nd day.	47	7	13	12	0	0	0	0	0	0	0												
23rd day.	47	7	13	12	0	0	0	0	0	0	0												
24th day.	47	7	13	12	0	0	0	0	0	0	0												
25th day.	47	7	13	12	0	0	0	0	0	0	0												
26th day.	47	7	13	12	0	0	0	0	0	0	0												
27th day.	47	7	13	12	0	0	0	0	0	0	0												
28th day.	47	7	13	12	0	0	0	0	0	0	0												
29th day.	47	7	13	12	0	0	0	0	0	0	0												
30th day.	47	7	13	12	0	0	0	0	0	0	0												
1st day.	47	7	13	12	0	0	0	0	0	0	0												
2nd day.	47	7	13	12	0	0	0	0	0	0	0												
3rd day.	47	7	13	12	0	0	0	0	0	0	0												

Sawantwadi & N. S. Dives

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First Quarter the 3 day, 7 in the morning.
Full Moon the 11 day, 10 in the morning.
Last Quarter the 19 day, 2 in the morning.
New Moon the 25 day, 4 at night.

Saturn		Jupiter		Mars		Venus		Mercury		Sun	
Days	○	○	○	○	○	○	○	○	○	○	○
1	19	22	23	13		8					
2	20	19	11	12	□	16	*				
3	21	17	23	50	19	17					
4	22	14	6	10	○	22					
5	Antecl.	23	11	18	20	△	10				
6	3 aft. Trin.	24	8	4	20	11	△	6			
7		25	5	12	18		14	△	4		
8		26	2	24	12		22		14		
9	7 aft. Trin.	26	79	6	7		○				
10	7 Brothers	27	57	18	2	8	○	3			
11		28	54	0	3	22	■	*			
12		29	51	12	8	23	14				
13	4 aft. Trin.	○	52	24	18						
14		1	46	6	3*	37	△				
15	5 aft. Trin.	2	43	19	7	9					
16		3	40	1	49	△	6				
17	5 aft. Trin.	4	37	14	47	4		11			
18		5	35	28	3	□	○	△			
19	5 aft. Trin.	6	32	11	10	14	23	3			
20	5 aft. Trin.	7	29	21	10	*		*			
21	Mar. Mag.	8	29	19	II	420		18			
22		9	23	24	8		□	*			
23		10	21	9	47		△	20	13		
24		11	19	24	52		4	△			
25	5 aft. Trin.	12	16	9	53	○	19				
26		13	14	24	42	9	4	6			
27	6 aft. Trin.	14	11	9	7	*		17			
28		15	9	23	8	9					
29	8	16	6	6	41	*	8				
30	9	17	4	19	47	19					
31	10	18	1/2	21	20		11				

1690.	h m	7 m	3 m	2 m	5 m	8 m
sun 10 A	11 16	12 19	9 11	4 3	R. 53	21
The Planets	3 11 7	2 22	14 17	40	43	20
Places every 1st day.	1 1 D. 20	1 S. 32	25 21	23 4	28 31	20
5th day.	6 1 25	7 32 28	20 19	55 25	34 29	
	21 11 31	7 R. 30 1	38	39 24	D. 8 19	
	26 F. 41	7 23 4	47	11 44 25	4 19	
	57 3	3 7	0 D	8.		
	57 3	3 7	48			
	58 3	2 8	36			
	59 3	1 9	24			
	58 3	0 10	12			
	59 3	1 11	0			
	57 3	0 12	48			
	57 3	1 12	36	D. Apog. the		
	57 3	2 12	0	middle,		
				and then		
	57 3	5 12		expect		
	57 3	6 12		Storms,		
	57 3	7 12		Thunder		
				and Rain		
	57 3	5 12				
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August hath XXXI days.

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First Quarter the 1 day, 8 at night.

Full Moon the 9 day, 12 at night.

Last Quarter the 17 day, 8 morning.

New Moon the 24 day, 1 morning.

		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Alma
		Days							
1	S	Lammas.	18	59 14	52	□	○	★	木
2	B		19	56 27	○	8	△	8	△
3	C	7 aft. Trin.	20	54 8	○	22	□	15	
4	D		21	52 20	53	△	4	□	
5	E		22	49 2	19	45 2	★	□	△ 2
6	F	Sixtus.	23	47 14	40	10	8	18	△ 3
7	G		24	45 26	37	○	★	9	
8	H		25	43 8	44	□	20	19	
9	I		26	40 21	18	7		16	
10	J	8 aft. Trin.	27	38 3	22	12	△	8	10
11	K		28	36 17	19	11	22	11	
12	L	Clara.	29	34 28	46	○	○	6	11
13	M		30	32 11	48	15	6	△	
14	N		1	30 25	○	△	14		
15	O	Affum. V.M.	2	28 8	26	12	5	△	
16	P		3	26 22	7	□	8	16	△ 1
17	Q	9 aft. Trin.	4	24 6	11	20	★	□	25
18	R	Helena.	5	22 20	11	○	22	★	
19	S		6	20 4	25	34	△	□	16
20	T		7	18 19	74	12	★	6	19
21	U		8	16 3	46	□	△	34	*
22	V		9	14 18	22	15 3	12		
23	W		10	12 2	52	6	4	6	
24	X	St. Barthol.	11	11 17	11	13 17	6	10	
25	Y		12	9 1	6	8	11	6	
26	Z	D. days End.	13	7 14	38	8	○	6	
27	A		14	5 27	48	1	5		
28	B	Decol. J. B.	15	4 10	34	★	5		
29	C		16	2 23	3	10 9	△	*	
30	D		17	1 5	12	22 7			
31	E	17 aft. Trin.	17	59 17	12	7	□		

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September last XXX days.

Full Moon the 8 day, 2 afternoon.

Last Quarter the 15 day, 2 afternoon.

New Moon the 22 day, 1 afternoon.

First Quarter the 29 day, 2 morning.

DAYS	ME	Other Aspects.					
		○	□	△	×	○	□
1	NEW MOON.	18	58 29	4		□	□
2	Veronica.	19	58 10	56	△ *	○	
3	Worl. Ass.	20	53 22	49 30	○	★	△
4	Theodosius.	21	53 4	48	○	22 10	15
5		22	53 16	57	29		4
6		23	53 29	26			25
7	13 aft. Trin.	24	49 11	59	○		
8	Nat. V. M.	25	48 24	53 0	○	8	
9		26	47 0	4	2	15 16	9
10		27	46 21	30		5	5
11	St. Jacobald.	28	44 5	9	○	2	
12	Idem.	29	43 18	47	△	6 *	1
13		30	42 2	37 10	23	△	8
14	13 aft. Trin.	1	44 16	58		7	1
15	Holy Cross.	2	49 1	3	○	□	4
16		3	30 14	13 3	△	3 12	6
17	Lambert.	4	38 29	24	★	△ *	10
18		5	37 13	34 1	○	16 2	
19	Januarius.	6	36 27	41	4		
20		7	36 11	42	★		
21	St. Michael.	8	35 25	35	7	8	
22		9	34 9	13 0	10	6	
23	Rufinus.	10	33 22	36 1		6	
24		11	33 1	41	6		16
25		12	32 18	27	20		
26	Cyprian.	13	32 0	55	△ *		
27	Idem.	14	31 13	8	○	5	
28	13 aft. Trin.	15	30 25	93	○		
29	Idem.	16	30 7	0 3	11	□	
30		17	29 18	50 2	10	28	3

1600	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1600	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1600	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1600	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1600	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

The Planets places every day.

A 2 15 46 1 33 11 33 13 33 07 25 16
20 15 18 0 20 8 20 10 20 19 30 16

High winds
D Apogee
and showers
D by coast

Rising 45 6 50 15 22 36
47 6 52 13 1 24 8 4 3.
49 6 55 11 2 12 D 6. Scatty
50 6 58 10 3 0 D Eclipse.

51 6 51 6 9 3 49 0 3. temp
53 6 53 6 7 4 36 weather
55 6 55 6 5 5 24 for the
58 6 58 6 3 6 part of the
month.

60 6 65 58 7 25 48 0 24
62 6 68 56 8 24 36 till
64 6 64 54 9 24 D Perigee
66 6 65 54 9 24

68 6 68 52 10 32
70 5 70 50 11 0
72 5 72 48 11 48
74 5 74 46 12 36

76 5 76 50 5 36
78 5 78 42 2 48
80 5 80 40 3 48
82 5 82 38 4 36

84 5 84 36 5 24
86 5 86 34 6 12
88 5 88 32 7 0
90 5 90 30 7 4

92 5 92 28 8 3
94 5 94 26 9 24 D 0 3.

Dropster: June XXXI days

3 Full moon the 2nd day, 3rd morning.
 5 Starry moon the 24th day, nipp. ac. 14th 5th 14th
 7 NEW moon the 2nd day, 2nd in the morning. 13th 23rd
 9 First quarter the 30th day, 6th in the morning.

DATE	C			A			Linear Aspects		
	1	2	3	4	5	6	7	8	9
1	18	29 0	31	2	3	4	5	6	*
2	19	29 22	38	5	6	7	8	9	□
3	20	28 24	49	14	9	15	16	17	□
4	21	28 7	14	15	16	17	18	19	□
5	16 aft. T. cin.	22	28 20	0	10	5	6	7	8
6	23	27 3	9	17	8	17	18	19	□
7	24	27 16	39	8	9	10	11	12	□
8	25	27 0	21	15	16	17	18	19	□
9	26	27 14	39	8	9	10	11	12	□
10	27	27 28	58	6	7	8	9	10	□
11	28	27 13	4	14	15	16	17	18	19
12	29	27 27	46	15	16	17	18	19	□
13	30	27 12	5	4	5	6	7	8	9
14	1	27 36	14	□	15	16	17	18	□
15	2	27 50	31	15	16	17	18	19	□
16	3	27 34	6	*	7	8	9	10	□
17	4	27 7	49	17	18	19	20	21	□
18	5	27 21	22	19	20	21	22	23	□
19	6	27 4	47	13	14	15	16	17	□
20	7	28 18	2	14	15	16	17	18	□
21	8	28 1	6	5	6	7	8	9	□
22	9	28 13	55	15	16	17	18	19	□
23	10	28 26	32	16	17	18	19	20	□
24	11	28 8	6	17	18	19	20	21	□
25	12	29 21	6	18	19	20	21	22	□
26	13	29 3	7	*	8	14	15	16	□
27	14	30 14	59	23	24	25	26	27	□
28	15	30 26	48	□	*	1	2	3	□
29	16	31 8	39	□	22	23	24	25	□
30	17	31 20	34	18	19	20	21	22	□
31	18	32 0	26	11	12	13	14	15	□

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1	18	3	19	10	18	8	2	11	6	16
2	19	3	20	11	19	9	3	12	7	16
3	20	3	21	12	20	10	4	13	8	16
4	21	3	22	13	21	11	5	14	9	16
5	22	3	23	14	22	12	6	15	10	16
6	23	3	24	15	23	13	7	16	11	16
7	24	3	25	16	24	14	8	17	12	16
8	25	3	26	17	25	15	9	18	13	16
9	26	3	27	18	26	16	10	19	14	16
10	27	3	28	19	27	17	11	20	15	16
11	28	3	29	20	28	18	12	21	16	16
12	29	3	30	21	29	19	13	22	17	16
13	30	3	31	22	30	20	14	23	18	16
14	31	3	1	23	31	21	15	24	19	16
15	1	3	2	24	1	22	13	2	14	5

355	24	10	12	Cloudy
385	22	11	0	begins the month
405	20	11	48	Δ N. ♀.
425	18	12	36	2011-12 W. 0
Rain.	445	16	24	6. 11. 0
Rain.	465	14	12	6. 7. ♀. Cold
Rain.	485	12	0	Rain
Rain.	505	10	8	or
				Snow.
936	525	84	36	11. 12. 0
1036	545	65	24	11. 12. 0
1136	565	40	12	11. 12. 0
1236	585	2	0	11. 12. 0
				Perig.
1336	595	07	48	Clearing Wind
1436	588	05	36	and
1536	569	03	24	11. 12. 0
1636	5410	01	12	white
				♀. Frost.
1736	5211	00	0	
1836	5011	48	0	
1936	4812	36	0	
2036	4611	24	0	
2136	454	452	12	Dark
2236	474	433	0	Mists,
2336	494	413	48	or
2436	504	404	36	Rain,
				♀. and
2536	224	385	24	Apog. cloudy
2636	244	365	12	dark
2736	204	347	0	weather
2836	284	327	48	and the
2936	304	308	36	month
3036	324	289	24	

November hath XXII days.

☽ Full Moon the 6 day at 3 in the afternoon.
 ☽ Last Quarter the 13 day, 6 in the morning.
 ☽ New Moon the 20 day, 7 at night.
 ☽ First Quarter the 29 day, 2 in the morning.

S	Solent Days	S	M	D	Lunar Aspects.					
					☽	☽	☽	☽	☽	☽
1	1	1	1	1						
2	2	2	2	2						
3	3	3	3	3						
4	4	4	4	4						
5	5	5	5	5						
6	6	6	6	6						
7	7	7	7	7						
8	8	8	8	8						
9	9	9	9	9						
10	10	10	10	10						
11	11	11	11	11						
12	12	12	12	12						
13	13	13	13	13						
14	14	14	14	14						
15	15	15	15	15						
16	16	16	16	16						
17	17	17	17	17						
18	18	18	18	18						
19	19	19	19	19						
20	20	20	20	20						
21	21	21	21	21						
22	22	22	22	22						
23	23	23	23	23						
24	24	24	24	24						
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26	26	26	26	26						
27	27	27	27	27						
28	28	28	28	28						
29	29	29	29	29						
30	30	30	30	30						
31	31	31	31	31						

1690.

M. J. S. D. W. F. Ω

	1	2	3	4	5	6	7	8	9	10	11	12	13
January	16	20	2	27	4	9	14	3	8	19	27	14	
The Planets	6	21	16	27	9	12	40	8	50	13	42	14	
Places every	13	21	36	27D.	36	16	8	13	8	10D.	57	13	
5th day.	16	22	12	27	38	19	38	19	11	14	21	13	
	21	22	46	27	46	23	8	24	8	39	29	13	
	26	23	2	28	0	26	40	28	42	26	7	13	

1	7	344	26	11	C	5	○	○	Ω	Cold		
2	7	354	24	11	H	48	○	○	Ω	H. or Snow		
3	7	384	22	12	H	36				and East		
4	7	394	21	1		24				Winds,		
5	7	404	20	2	H	12				sharp		
6	7	424	18	3	H	2	C			WINDS		
7	7	434	17	3	H	44	5	3	Ω	piercing		
8	7	454	15	4	H	36						
9	7	474	13	5		24	△	○	Ω	W.		
10	7	494	11	6		32	*	Ω	Ω	tempera		
11	7	504	10	7		0	Ω	Ω	Ω	Perigee		
12	7	524	8	7		48						
13	7	534	7	8		36						
14	7	544	11	9	H	24	Ω	Ω	Ω	variable		
15	7	554	5	10	H	12				for		
16	7	564	3	11	H	0				many		
17	7	574	1	11		4	*	Ω	Ω	WINDS		
18	7	584	2	12		36				and		
19	7	594	1	12		24	*	Ω	Ω	about		
20	8	104	0	13		12	Ω	Ω	Ω	in the		
21	8	113	32	993		0				and		
22	8	*	23	583		48				much		
23	8	+	33	573		36	Ω	Ω	Ω	Apog.		
24	8	+	43	563		24	Ω	Ω	Ω	Rain		
25	8	0	53	553								
26	8	0	63	543			12	*	Ω	Ω		
27	8	1	63	537			0	Ω	Ω	Ω		
28	8	1	73	533		48	Ω	Ω	Ω			
29	8	2	83	529		24	*	Ω	Ω	Ω		
30	8	2	93	510		12						

December hath XXXI days.

Full Moon the 16 day, 6 in the morning.

Last Quarter the 12 day, 6 at night.

New Moon the 20 day, 2 afternoon.

First Quarter the 28 day, 6 at night.

Date	Saints	Longit.	Lat.	Aspect	Lunar Aspects						
					1	2	3	4	5	6	7
1	S. Longinus.	20	19	△							
2	St. Blasius.	26	4	⊗	43	2	8				
3	St. Barbara.	22	15	⊗	50	14	*				
4	St. John. Bap.	23	5	II	25	12	18				
5	C. Genesius.	24	6	II	33	8					
6	S. Nicholas.	25	7	⊗	35	14	18				
7	2 Advent.	26	16	II	31	49					
8		27	5	⊗	2	14	18				
9	St. Joachim.	28	11	II	35	△	□	6			
10	St. Adalbert.	29	12	⊗	57	20	12				
11		30	9	⊗	14	11	54				
12	C. Valerius.	24	14	II	28	□	8	*			
13	St. Lucy. V.	2	16	II	46	61	2	18			
14	3 Advent.	3	17	24	34	*					
15	St. Adalbert.	45	18	II	31	15	18				
16		5	20	69	2	43		△			
17	St. Lazarus.	5	21	II	1	14	20	5			
18	St. Christopher.	7	22	14	10	12		20			
19	C. Lucia.	8	23	86	13	2					
20	St. Bode.	9	25	31	My	12	8	1			
21	St. Thomas.	10	26	20	6	2	*	*			
22		11	27	29	58	12	21				
23		12	28	18	82	49	5	*			
24	St. Barbara.	13	29	25	2	43		4			
25	Christmas.	14	30	7	⊗	42	*				
26	St. Stephen.	15	32	19	2	50	5	△	6	20	
27	St. John.	16	33	2	27	13	5	32	42		
28	St. Innocent.	17	34	18	12	51	□	0		△	
29		18	35	27	2	53	3		10	25	
30	David.	19	37	10	25	22	△	8		14	△
31	Silvester.	20	38	25	12	19	15	8	*	17	13

1890.

	h	24	6	9	3
	m	x	+	-	x
Type Planets	6	24	26	28	30
Places every	11	24	58	29	7
Saturday	16	25	28	29	10
	21	25	58	0	14
	26	26	26	0	18

1	8	103	5011	0	
2	8	113	5911	H 48	
3	8	123	4812	36	
4	8	123	481	24	
5	8	133	472	12	
6	8	133	473	0	
7	8	133	473	48	D. Perig.
8	8	133	4740	36	
9	8	143	465	24	
10	8	143	466	12	Wholesome
11	8	143	467	6	2. F. 1. and 5.
12	8	143	4670	48	clearing
13	8	143	4670	48	sharp
14	8	133	478	36	Wind.
15	8	133	479	24	for
16	8	133	4710	12	the
17	8	133	4711	10	most
18	8	123	4712	2	part.
19	8	123	4810	24	
20	8	113	4811	12	
21	8	103	503	48	D. Apog. about
22	8	93	514	36	the
23	8	83	525	24	end,
24	8	73	536	12	
25	8	63	547	00	D. 6.
26	8	53	557	48	Rain
27	8	43	568	36	or
28	8	43	569	24	Snow.
29	8	33	5710	12	
30	8	23	5811	00	* ♂ ♀.
31	8	13	5911	48	

Good
weather
considering
the
Season.

Wholesome
2. F. 1. and 5.

clearing

sharp

Wind.

for

the

most

part.

.0001

81

**A Table of Circles Areas in Ale-Gallons, from Twelve
Inches to Sixty Four, of Diameter, Calculated to e-
very Quarter of an Inch, according to Two Hundred
and Eighty Two Cubical Inches in the Gallon.**

Diameter.	1102			101		
	100	1102	101	100	1102	101
Inches	G.	Pts.	G.	Pts.	G.	Pts.
120	34	0	41	0	43	0
130	47	0	48	0	56	0
140	54	0	56	0	58	0
150	62	0	64	0	66	0
160	70	0	73	0	75	0
170	80	0	82	0	85	0
180	90	0	92	0	95	0
190	100	0	103	1	105	1
200	110	1	111	1	117	1
210	120	1	125	1	128	1
220	134	1	137	1	141	1
230	147	1	150	1	153	1
240	160	1	163	1	167	1
250	174	1	177	1	181	1
260	188	1	191	1	195	1
270	202	2	202	2	202	2
280	218	2	212	2	212	2
290	234	2	231	2	242	2
300	250	2	254	2	259	2

1102

101

100

1102

101

Dia.	Area	25	5	75
31	2 67	2 71	2 76	2 80
32	2 85	2 89	2 94	2 98
33	3 03	3 07	3 12	3 17
34	3 21	3 26	3 31	3 36
35	3 39	3 45	3 50	3 55
36	3 58	3 65	3 71	3 78
37	3 78	3 85	3 91	3 98
38	4 02	4 07	4 12	4 18
39	4 23	4 29	4 34	4 40
40	4 45	4 51	4 56	4 62
41	4 68	4 73	4 79	4 85
42	4 91	4 97	5 02	5 09
43	5 14	5 20	5 27	5 33
44	5 39	5 45	5 51	5 57
45	5 63	5 70	5 76	5 82
46	5 89	5 96	6 02	6 08
47	6 15	6 21	6 28	6 35
48	6 41	6 48	6 55	6 61
49	6 68	6 75	6 82	6 89
50	6 96	7 03	7 10	7 17
51	7 24	7 31	7 38	7 45
52	7 53	7 60	7 67	7 74
53	7 82	7 89	7 97	8 04
54	8 12	8 19	8 27	8 34
55	8 42	8 50	8 57	8 65
56	8 73	8 81	8 89	8 96
57	9 04	9 12	9 20	9 28
58	9 36	9 45	9 53	9 61
59	9 69	9 77	9 86	9 94
60	10 02	10 11	10 19	10 27
61	10 36	10 44	10 53	10 61
62	10 70	10 79	10 87	10 96
63	11 05	11 14	11 23	11 31
64	11 40	11 49	11 58	11 67

C

Tha

The Use of the Table of Circles Areas, for the
Gageing of Ale or Worts in any Tub or round
Vessel.

If the Vessel be a Cillinder against the Inches
of its Diameter, you have the *Area* at one
Inch deep, which multiply by the number of
wet Inches gives the content.

If it differ from a Cillinder, multiply the
difference of Diameters by $\frac{7}{10}$ and that product
add to the lesser Diameter, gives you the
mean Diameter, with which Enter the Table
and find the *Area*, and work as above directed.

Example.

There is a Vessel whose greater Diameter is
36, and the Lesser 29, the Inches wet 17, I
demand the Content of the Liquor in Ale Gal-
lons.

The difference of Diameters 7
I multiply by — 7 10 — $\frac{7}{10}$

and the product is — 4:9 which I add
to the lesser Diameter — 29 — $\frac{4:9}{33:9}$

and it gives me the mean — 33:9

Against

Against which I find in the Table —

Gall.

2 19 which I multiply by the wet
17 Inches, cutting off from the Pro-
duct two Figures toward the Right
1533 Hand for the Fractions, and it
219 produceth thirty seven Gallons
37 23 ²³ Patis, the true Content of the
Liquor.

*The Use of Table in Gageing of Wine
or Ale Cask.*

Take the *Area* out of the Table against
the Diameter at the bung, and set that
down twice, and the *Area* against the Diameter
at the Head, and set that down once, add
those three together, and it gives you the tri-
pled *Area* of a mean Circle, which multiplied
by $\frac{1}{3}$ of the length produce the Content.

Example.

A Casks bung diameter — 22 5
each head 18 5 and the length — 39

Against 22 5 in the Table I find — 1 41
which I set down twice — 1 41
Against 18 5 I find — 0 95

The tripled Area of a mean	3 77
multiplied by $\frac{1}{3}$ of the length	13
	—
it gives the Content	1131
	377
	—
49 Gall. fere	49 01

To know the content in Wine Gallons, multiply the content in Ale Gallons by 1 22 cutting off the fractions, and it shews the content in Wine or Oyl measure.

Example.

The Content found in Ale measure	
Multiplicator	49 01
	1 22 for Wine
	—
	9802
	9802
	4901
Content	59 7922
	59 Gall. 3 quarts.

14 Table

*A Table to reduce Gallons into Barrels
and Firkins.*

Gallons.

Beer B.F.G.	Ale B.F.G.	Gallons.	Beer B. F. G.	Ale B. F. G.
8 0 0 8	0 1 0	70	1 3 7	2 0 6
9 0 1 0	0 1 1	80	2 0 8	2 0 0
10 0 1 1	0 1 2	90	2 2 0	3 2 2
11 0 1 2	0 1 3	100	2 3 1	3 0 4
12 0 1 3	0 1 4	200	5 2 2	1 0 0
13 0 1 4	0 1 5	300	8 1 3	9 1 4
14 0 1 5	0 1 6	400	11 0 4	12 2 0
15 0 1 6	0 1 7	500	13 3 5	15 2 4
16 0 1 7	0 2 0	600	16 2 6	18 3 0
17 0 1 8	0 2 1	700	19 1 7	21 3 4
18 0 2 0	0 2 2	800	22 0 8	25 0 0
19 0 2 1	0 2 3	900	25 0 0	38 0 4
20 0 2 2	0 2 4	1000	27 3 1	31 1 0
30 0 3 3	0 3 6	2000	55 2 2	62 2 0
40 1 0 4	1 1 0	3000	83 1 3	93 3 0
50 1 1 5	1 2 2	4000	111 0 4	125 0 0
60 1 2 6	1 3 4	5000	138 2 5	156 1 0

A Table

A Table of Allowances for Common Brewers of
 3 in 23 for Beer, and 2 in 22 for Ale, at
 2 s. 6 d. per Barrel Strong, and 6d. the Bar-
 rel Small in Net Money, from One Firkin to
 1000 Barrels.

Barrels.	Strong Beer.				Ale.				Small Beer			
	l.	s.	d.	q.	l.	s.	d.	q.	l.	s.	d.	q.
1	0	0	6	2	0	0	6	3	0	0	1	1
2	0	1	1	0	0	1	1	2	0	0	2	2
3	0	1	7	2	0	1	8	2	0	0	3	3
4	0	2	2	0	0	2	3	1	0	0	3	1
5	0	4	4	1	0	4	6	2	0	0	10	2
6	0	6	6	1	0	6	9	3	0	1	3	3
7	0	8	8	1	0	9	1	0	0	1	8	3
8	0	10	10	2	0	11	4	1	0	2	2	0
9	0	13	0	2	0	13	7	2	0	2	7	1
10	0	15	2	2	0	15	11	0	0	3	0	2
11	0	17	4	3	0	18	2	1	0	3	5	3
12	0	19	6	3	1	0	5	2	0	3	11	0
13	1	1	8	3	1	2	8	3	0	4	4	1
14	1	3	11	0	1	5	0	0	0	4	9	1
15	1	6	1	0	1	7	3	1	0	5	2	2
16	1	8	3	0	1	9	6	2	0	5	7	3
17	1	10	5	1	1	11	9	3	0	6	1	0
18	1	12	7	1	1	14	1	0	0	6	6	1
19	1	14	9	2	1	16	4	1	0	6	11	2

Barrels.	Strong Beer.				Ale.				Small Beer.			
	l.	s.	d.	q.	l.	s.	d.	q.	l.	s.	d.	q.
17	1	16	11	2	1	18	7	20	7	4	3	
18	1	19	1	2	2	0	10	30	7	10	0	
19	2	1	3	2	2	3	2	00	8	3	0	
20	2	3	5	3	2	5	5	20	8	8	1	
21	2	5	7	3	2	7	8	30	9	1	2	
22	2	7	9	3	2	10	0	00	9	6	3	
23	2	10	0	0	2	12	3	10	10	0	0	
24	2	12	2	0	2	14	6	20	10	5		
25	2	14	4	1	2	16	9	30	10	10	1	
26	2	16	6	1	2	19	0	00	11	3	2	
27	2	18	8	1	3	1	4	10	11	8	3	
28	3	00	10	2	3	2	7	20	12	2	0	
29	3	3	0	2	3	5	10	30	12	7	1	
30	3	5	2	2	3	8	2	00	13	0	2	
40	4	6	11	2	4	10	10	30	17	4	3	
50	5	8	8	1	5	13	7	21	1	8	3	
60	6	10	5	1	6	16	4	11	6	1	0	
70	7	12	2	0	7	19	1	01	10	5	1	
80	8	13	11	0	9	1	9	31	14	9	1	
90	9	15	7	2	10	4	6	21	19	1	2	
100	10	17	4	3	11	7	3	12	3	5	3	
200	21	14	9	2	22	14	6	24	6	11	2	
300	32	12	2	0	34	1	9	36	10	5	1	
400	43	9	6	3	45	9	1	08	13	11	0	
500	54	6	11	2	56	16	4	10	17	4	3	
600	65	4	4	0	68	3	7	2	13	0	10	2
700	76	1	8	3	79	10	10	31	15	4	4	1
800	86	19	1	2	90	18	2	1	17	7	10	0
900	97	16	6	1	102	5	5	2	19	11	3	3
1000	108	13	11	0	113	12	8	3	21	14	9	2

This Table needs no Explanation, for you see 27 Barrels Strong Beer is
 27 Ale
 27 Small

0

Of the Four Quarters of the Year 1690.

Of the Spring.

*Omnia cum vireant, tunc est nova temporis
Ætas, sic Annus per Ver incipiendus erit.*

THE beginning of the year being of most People in all Ages accounted about the *Vernal Equinox*, at which time some do suppose the World had its Birth, or first beginning; which whether true or false, I shall not now dispute: but shall begin here also, it being the most beautiful and pleasant time of all the year, and most proper for the Generation of things, and is called the Spring, or *Ver*,

à virendo quia tunc omnia vireant.

because all things grow green and flourish. It takes its beginning with the Suns entrance into the first scruple of the *Æquinoctial Sign Aries*, which happens this year by our Tables in *Astronomia Anglicana*, *March the 9th*, 13 hours 15 minutes after *Noon*; or by our *Vulgar Account* *March the 10th*, at 50 minutes past one in the *Morning*, at which time 29 degrees.

A Table

A Table of Allowances for Common Brewers of $\frac{1}{2}$ in 23, at three Shillings and three pence the Barrel for strong Beer, and nine pence for small, according to the Act for additional duty of Excise on Beer and Ale, from $\frac{1}{4}$ of a Barrel, to a 1000 Barrels Strong and Small.

Strong Beer or Ale.	Strong Beer or Ale.	Small Beer or Ale.
Bar. l. s. d. f. 10th	Bar. l. s. d. f. 10	Bar. l. s. d. f. 10th
10 0 8 2 7	300 43 9 0	8 0 5 4 0 7
10 1 5 1 5	400 57 18 8	9 0 6 0 0 8
10 2 2 0 2	500 72 8 4	10 0 6 8 0 8
		20 0 13 4 1 6
10 2 10 3 0	600 86 18 0	30 1 0 0 2 4
20 5 9 2 0	700 101 7 8	40 1 6 8 3 3
30 8 8 1 1	800 115 17 4	50 1 13 5
40 11 7 0 1	900 130 7 0	60 2 0 1 0 8
50 14 5 3 2	1000 144 16 8	70 2 0 9 1 6
60 17 4 2 2	Small Beer or Ale.	
70 0 3 1 3		
80 3 2 0 3		
90 6 0 3 3	Bar. l. s. d. f. 10.	100 3 6 10—
100 8 11 2 4		200 6 13 8—
200 17 11 0 8	1 0 0 2 0 0	300 10 0 6—
300 6 10 3 2	1 0 0 4 0 0	400 13 7 4—
400 15 10 1 6	1 0 0 6 0 0	
500 14 19 : :	1 0 0 8 0 0	500 16 4 2—
600 13 9 2 4	2 0 1 4 0 1	600 20 1 0—
700 10 2 9 0 8	2 0 2 0 0 2	700 23 7 10—
800 11 11 8 3 2	3 0 2 8 0 3	800 26 14 8—
900 13 0 8 1 6	4 0 2 8 0 3	900 30 1 6—
1000 14 9 8 : :	5 0 3 4 0 4	1000 33 8 4—
2000 28 19 4 : :	6 0 4 0 0 5	
	7 0 4 8 0 6	

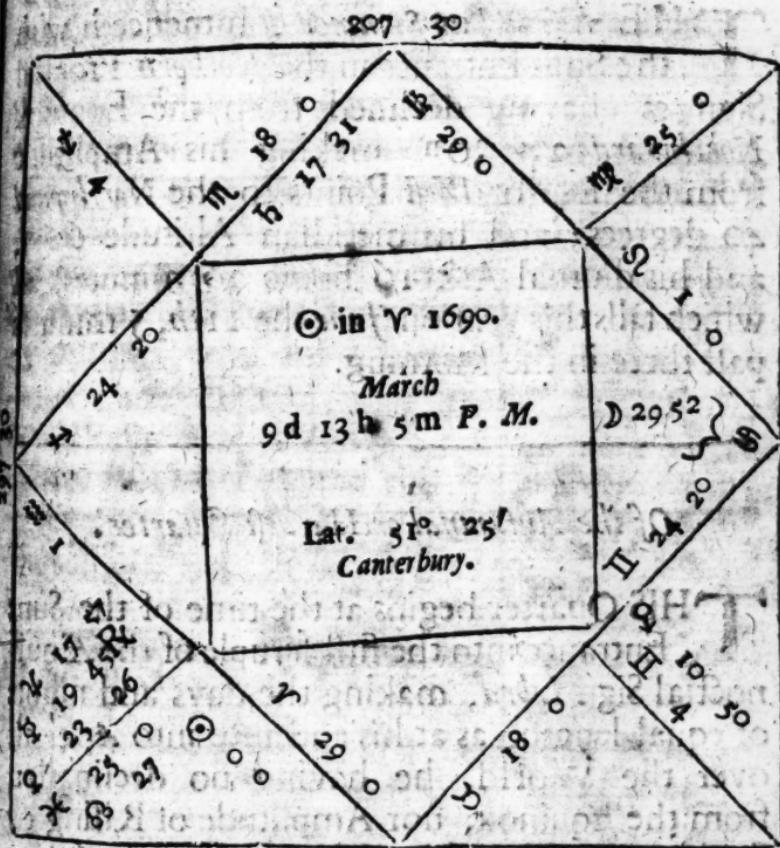
Of Libra Culminates, and 23 degrees, and 56 minutes of Sagittarius ascends in the Eastern finitur, as may be seen by the following Calculation.

Ex Astr. Ang.	S	o	1	11
Lo. \odot ab Aequino ^x	0	0	0	0
Precession of the Aequino ^x sub.	0	24	47	30
Long. \odot a I * γ	11	1	12	40
mean Anomaly correspondent	8	20	50	46
1681 gives	6	13	33	20
years 9 gives	2	7	17	26
Rem.	11	20	42	4
March	1	28	9	4
Rem.	0	9	26	18
days 9	8	52	14	
Rem.	0	34	4	
Hours 13			32	2
Min. 50				2

for which time if we erect the figure, —
 The Right Ascension of the Sun is 000d 00m
 The Right Ascension of Time — 207 30
 which is also the Right Ascension of the mid.
 Heaven. The Obliger Ascension of the Ascen-
 dant is 297 30.

The

The Scream followeth.



This Quarter continues till the Sun hath
Traversed by his natural Motion, the three
Vernal Signs, *Aries*, *Taurus*, and *Gemini*, and
is of its proper Nature Hot and Moist. The
Diseases of this Quarter are chiefly *Small Pox*,
putrid Fevers, *Plurisies*, *Peripneumonies*, &c.

of

Of the Summer Quarter.

THE *Aestival or Summer* commenceth with the Suns Entrance in the *Notbner Tropical Sign* $\text{\textcircled{S}}$, having declined from the Equinox *Northward* $23^{\circ} 30'$, making his Amplitude from the *East* or *West* Points to the *Northward* 40 degrees; and his meridian Altitude $62^{\circ} 3'$, and his diurnal Ark 16 hours 26 minutes, all which falls this year on *June the 11th*, 5 minutes past three in the Morning.

Of the Autumnal or Harvest Quarter.

THIS Quarter begins at the time of the Suns Entrance into the first scruple of the *Equinoctial Sign Libra*, making the days and nights of equal length, as at his entrance into *Aries* all over the *World*, he having no declination from the Equinox, nor Amplitude of Rising or Setting; his Meridian Altitude being the Complement of the Poles Elevation, *viz.* $38^{\circ} 35'$ of *Canterbury*, it commenceth this year *September the 12th*, 6 hours 48 minutes *post Meridiem*, of Afternoon.

91

Of the Winter Quarter;

THE Hyemnal or Winter Quarter we account Commences upon the Suns ingress into the first Scruple of the Tropical Sign Capricorn, he then declining South from the Æquinox 23 degrees, 30 minutes, and hath 40 degrees of Amplitude of Rising or Setting, from the true East or West points of the Horizon Southward; his Meridian Altitude then being but 15 degrees 5 minutes, and his Diurnal Ark seven hours thirty four minutes, making the shortest days and longest nights in all our Northern Hemisphere: This happens this year December the Eleventh, forty minutes past six in the Morning.

Felix qui putuit rerum cognoscere causas;

E I N I S.

ADVERTISEMENTS.

THERE is lately published by the Author, *Astronomia Anglicana*; Containing an Absolute and Entire piece of *Astronomy*: in which is succinctly handled the Trigonometrical part, particularly applyed in all Questions tending to diurnal motion: with the Doctrine of Parallaxes, and especially respecting the main Doctrine of the second Motions of the Luminaries, and other Planets; with their Affections, as Eclipses, &c. composed according to the best Observations, and grounded upon the most Rational Hypothesis yet constituted; with new facile and most exact Tables, whereby the Planets Places, both in Longitude and Latitude, for any time past, present, or to come, is speedily attained, by Inspection only; with Precepts for Calculating Eclipses, more easie, expedite, and perspicuous, than any heretofore extant.

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